

## INITIATE AN INTRAOSSEOUS INFUSION (F.A.S.T.™)

For use of this form see TC 8-800; the proponent agency is TRADOC.

**TABLES:** III

**REFERENCES:** STP 8-68W13-SM-TG, Task: 081-833-0185, Initiate a FAST 1.

**1. Soldier** (Last Name, First Name, MI)

**2. Date** (YYYYMMDD)

**CONDITIONS:**

Given an intraosseous trainer in a simulated combat environment. You are not in a CBRN environment. In managing a casualty that is exhibiting the signs and symptoms of hypovolemic (hemorrhagic) shock, peripheral intravenous access may not be possible. Vascular access by sternal intraosseous infusion could make the difference between a casualty dying of the wounds received or surviving evacuation to the next level of care.

**STANDARDS:**

Perform all measures IAW the standards of evaluation outlined in C168W144/1 Tactical Combat Casualty Care. You must score at least 70% (14 of 20 steps) and not miss any critical (\*) elements on the skill sheet.

**SAFETY:**

- o Risk Assessment: Low. All bodily fluids should be considered potentially infectious; always observe body substance isolation (BSI).
- o Precautions: Wear gloves and eye protection as a minimal standard of protection.
- o Environmental: None.

**NOTE:**

Soldier Medics must be observed. (Evaluator to Soldier Medic ratio is 1:6).

**TEST SCENARIO:**

The lead Bradley infantry fighting vehicle traveling directly in front of your vehicle has been struck by an IED. After securing the immediate area, the casualties are moved to safety. Following your initial assessment and rapid trauma assessment you determine that you must establish peripheral intravenous access for one of the casualties in order to initiate fluids. After two attempts at initiating a peripheral IV, you are unable to establish venous access. You must establish vascular access by sternal intraosseous (F.A.S.T.™) device; you have been provided the necessary medical equipment.

**3. Evaluator's Comments and After-Test Recommendations:**

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**INITIATE AN INTRAOSSEOUS INFUSION (F.A.S.T.<sup>TM</sup>)  
GRADING SHEET**

TASK	COMPLETED					
	1ST		2ND		3RD	
4.	P	F	P	F	P	F
a. * Took/verbalized body substance isolation (BSI) precautions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Assembled the necessary equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Explained the procedure to the casualty (if conscious) and asked about known allergies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Prepared and inspected equipment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Donned gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Located the suprasternal notch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Cleansed the site with antimicrobial solution.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Emplaced the target patch using their index finger to ensure proper alignment with the casualty's sternal notch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Rechecked the location of the target patch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. * Placed the introducer into the target zone of the target patch; maintained perpendicular aspect of the introducer to the manubrium.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Applied firm, increasing pressure along the axis of the introducer until a distinct release was felt/heard. <b>WARNING: Extreme force, twisting, or jabbing of the introducer must be avoided.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Gently removed the introducer by pulling straight back.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
m. Flushed the infusion tube with 5 ml of sterile saline.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
n. Connected the infusion tube to the right angle connector on the target patch.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
o. Opened the flow-regulator clamp and allowed the fluid to run freely for several seconds; adjusted to the desired flow rate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
p. Attached the remover device to the casualty.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
q. Removed their gloves and disposed of them appropriately.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
r. Documented the procedure on the appropriate medical form.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
s. * Did not violate aseptic technique.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
t. * Did not cause further injury to the casualty.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>* CRITICAL ELEMENTS</b>						

**INITIATE AN INTRAOSSEOUS INFUSION (F.A.S.T.<sup>TM</sup>)  
GRADING SHEET (cont'd)**

5. Demonstrated Proficiency

Yes

☐

No

☐

6. Start Time

7. Stop Time

8. Initial Evaluator

9. Start Time

10. Stop Time

11. Retest Evaluator

12. Start Time

13. Stop Time

14. Final Evaluator

15. Remarks

**INITIATE AN INTRAOSSEOUS INFUSION (F.A.S.T.1™)**  
**EVALUATOR GUIDELINES AND INSTRUCTIONS**

Inform the Soldier Medic of the CONDITIONS and STANDARDS as stated on this form.

Provide an optional scenario, if appropriate. This scenario should reinforce the unique or particular needs of the unit.

Allow sufficient time for the Soldier Medic to extract information from the scenario.

Provide each evaluator with the grading sheet.

Ensure the Soldier Medic has all required materials.

Explain how the exercise is graded.

**Resource Requirements:**

**Evaluator:** Grading sheet and applicable scenario.

**Soldier Medic:** Applicable scenario, medical aid bag stocked with a basic load to include IV solution, administration set, and F.A.S.T.1™ kit.

**Additional Scoring Guidelines:** None